

CIGRÉ International Council on Large Electric Systems

Liaison Report on SCA2
Transformers for
IEEE Transformers
Committee- Spring 2022
Meeting

- March 28, 2022



CIGRÉ Study Committees

SC A1: Rotating Electrical Machines

SC A2: Transformers

SC A3: High Voltage Equipment

SC B1: Insulated Cables

SC B2: Overhead Lines

SC B3: Substations

SC B4: HVDC and Power Electronics

SC B5: Protection and Automation

SC C1: System Development and Economics

SC C2: System Operation and Control

SC C3: System Environmental Performance

SC C4: System Technical Performance

SC C5: Electricity Markets and Regulation

SC C6: Distribution Systems and Dispersed Generation

SC D1: Materials and Emerging Test Techniques

SC D2: Information Systems and Telecommunication

SC A2 Recent Publications

- **Brochure 857: On-Site Assembly, On-Site Rebuild, and On-Site High Voltage Testing of Power Transformers**
 - From Working Group A2.59
 - Brochure published Dec. 2021
- **Brochure 861: Improvements to PD Measurements for Factory and Site Acceptance Tests of Power Transformers**
 - From Joint Working Group A2/D1.51
 - Brochure published Jan. 2022

SC A2 WG Activities

No.	Working Group	Topic	Status
1	A2/C4.52	HF Transformer and Reactor Models	Active
2	A2.53	FRA Interpretation	Active
3	A2.54	Audible Sound Requirements	Active
4	A2.56	Transformer Efficiency	Active
5	A2.57	Effects of DC Bias	Active
6	A2.58	Site Installation and Pre-commissioning of Power Transformers and Shunt Reactors	Active
7	A2.60	Dynamic Thermal Performance of Power Transformers	Active

SC A2 WG Activities

No.	Working Group	Topic	Status
8	A2.61	Best Practices for On-Load Tap Changers (OLTC)	Active
9	A2.62	Analysis of AC Transformer Reliability	Active
10	A2.63	Transformer Impulse Testing	Active
11	A2.64	Condition of Cellulose Insulation in Oil Immersed Transformers After Factory Acceptance Tests	Active
12	D1/A2.77	Tests for Insulating Fluids	Active
13	A2/D2.65	Transformer Digital Twin- concept and future perspectives	Starting

Upcoming New Working Groups

- A2/D1.66: Breathing systems of liquid filled transformers and reactors
- A2/D1.67: Guideline for Online Dissolved Gas Analysis Monitoring

If interested in contributing, please contact your appropriate CIGRÉ National Committee Representative.

TF and AG activities

- Advisory Group (AG) Activities
 - Green Book A2.6: Transformer Procurement Process
 - Developed for Users of Power Transformers
 - Specification Development
 - Factory Qualification
 - Design Review
 - Transportation
 - Site Installation
 - Publication by early 2022

CIGRÉ Session 2022

Preferential Subjects for A2 Papers:

1. Experience and new requirements for transformers for renewable generation
2. Beyond the mineral oil-immersed transformers and reactor
3. Best practices in transformer and reactor procurement

Selected papers notified by April 24, 2022

Upcoming Events

- **CIGRÉ Session 2022**
 - Palais des Congrès, Paris, France, Aug. 28-Sep. 2, 2022
- **CIGRÉ USNC Grid of the Future**
 - Chicago, IL, November 7-10, 2022
 - Hosted by Commonwealth Edison (comed)
 - Paper manuscripts submitted for review by 7/31/2022
- **CIGRÉ Symposium**
 - Cairns, Australia, September 4-7, 2023
 - Cairns Convention Center
- **CIGRÉ A2 Study Committee Colloquium**
 - Split, Croatia, October 2023

IEEE Liaison Report

THANK YOU!

